

CLAIMS

1. A substrate for bioassay that has a disc-shape and can optically interpret recorded information, the substrate
5 comprising areas to be detected comprising the following areas (1) and (2) as a unit:

(1) a data-detecting area comprising at least a reaction area providing an area used for a mutual reaction process of substances to be detected and a target substance;
10 and

(2) a servo area disposed in the area that is not overlapped with the data-detecting area and optically providing positional information on the data-detecting area.

2. The substrate for bioassay according to claim 1,
15 wherein the reaction area comprises a detection surface on which a surface treatment is performed so as to fix the substances to be detected.

3. The substrate for bioassay according to claim 1,
wherein the substances to be detected and the target
20 substance are nucleotide chains and the mutual reaction process is hybridization.

4. The substrate for bioassay according to claim 1,
wherein a plurality of the areas to be detected are arrayed in the circumferential direction.

25 5. The substrate for bioassay according to claim 4,

wherein the areas to be detected are arrayed in concentric circles or in a spiral shape when viewed from the top.

6. The substrate for bioassay according to claim 1, wherein the positional information comprises a tracking mark
5 and an address mark.

7. A device for interpreting substrate information, the device for optically interpreting information on the substrate for bioassay according to claim 1,

wherein a positioning operation of a discharging head
10 used for pipetting a sample solution on the data-detecting area and a positioning operation of an optical head used for irradiating light and receiving the reflected light to detect the positional information and to detect information on the mutual reaction process in the reaction area are
15 controlled according to positional information obtained from the servo area.

8. The device for interpreting substrate information according to claim 7, wherein the data-detecting area is irradiated with only excitation light for detection.

20 9. A method for interpreting substrate information, the method for optically interpreting information on a substrate for bioassay that has a disc-shape and can optically interpret recorded information, the substrate comprising a data-detecting area comprising at least a reaction area
25 providing an area used for a mutual reaction process of

substances to be detected and a target substance; and a servo area disposed in the area that is not overlapped with the data-detecting area and optically providing positional information on the data-detecting area,

5 wherein a step of positioning a discharging head used for pipetting a sample solution on the data-detecting area and a step of positioning an optical head used for irradiating light and receiving the reflected light to detect the positional information and to detect information
10 on the mutual reaction process in the reaction area are controlled according to positional information obtained from the servo area.

10. The method for interpreting substrate information according to claim 9, wherein the data-detecting area is
15 irradiated with only excitation light for detection.